

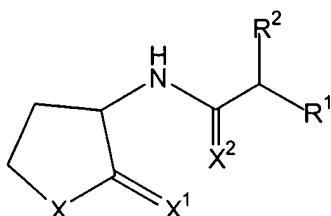
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application. Please cancel claims 1-108. Please add new claim 109-124.

LISTING OF CLAIMS:

1 1. - 108. (Canceled)

1 109. (New) A compound having the structure:



(I)

2 3 wherein,

4 R¹ is a member selected from hydrogen, -OH, and (=O);

5 R² is a member selected from reactive functional groups, alkyl groups
6 terminally substituted with a reactive functional group and internally
7 substituted alkyl groups terminally substituted with a reactive
8 functional group wherein said alkyl groups terminally substituted with
9 a reactive functional group and said internally substituted alkyl groups
10 terminally substituted with a reactive functional group are substituted
11 with a reactive functional group which is a member selected from
12 -OR³, -NHR⁴, -COR⁵, -SH and -CH₂X³ wherein,

13 -OR³ is a member selected from hydroxyl, and a species such
14 that -OR³ is a leaving group;

15 R⁴ is a member selected from hydrogen, C₁-C₆ alkyl, C₁-C₆
16 substituted alkyl, aryl and substituted aryl groups;

17 R⁵ is a member selected from hydrogen, X³ and -OR⁶, wherein
18 R⁶ is a member selected from hydrogen, and a species
19 such that -OR⁶ is a leaving group; and

20 X³ is a halogen;
21 X is -NH-; and

22 X^1 and X^2 are members independently selected from O and S.

1 110. (New) The compound according to claim 109, wherein R² is an
2 internally substituted alkyl group terminally substituted with a reactive functional group.

1 111. (New) The compound according to claim 110, wherein the alkyl group
2 is internally substituted with a functional group that is a member selected from -OH, (=O)
3 and combinations thereof.

1 **112.** (New) The compound according to claim 109, wherein the compound
2 is a single stereoisomer.

1 **113.** (New) The compound according to claim 109, wherein the alkyl and
2 the internally substituted alkyl groups are members selected from C₁-C₂₀ saturated straight-
3 chain, C₁-C₂₀ saturated branched-chain, C₁-C₂₀ unsaturated straight-chain, C₁-C₂₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 114. (New) The compound according to claim 113, wherein the alkyl and
2 internally substituted alkyl groups are members selected from C₅-C₁₀ saturated straight-chain,
3 C₅-C₁₀ saturated branched-chain, C₅-C₁₀ unsaturated straight-chain, C₅-C₁₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 115. (New) A compound according to claim 109, wherein R² has the
2 structure:



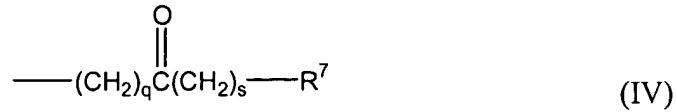
4 wherein,

5 R⁷ a reactive functional group; and

6 n is a number from 1 to 20, inclusive.

1 **116.** (New) The compound according to claim 115, wherein n is a number
2 from 2 to 9, inclusive.

1 **117.** (New) A compound according to claim 109, wherein R² has the
2 structure:



4 wherein,
5 R⁷ is a reactive functional group; and
6 q and s are numbers independently selected from 1 to 20, inclusive.

1 **118.** (New) The compound according to claim 117, wherein s is a number
2 from 2 to 9, inclusive.

1 **119.** (New) The compound according to claim 109, wherein R³ is



3 wherein,
4 R⁸ is a member selected from alkyl, substituted alkyl, aryl and substituted aryl
5 groups.

1 **120.** (New) The compound according to claim 109, wherein R⁶ is a member
2 selected from alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl,
3 heterocycl and substituted heterocycl groups.

1 **121.** (New) A compound according to claim 109, wherein R² has the
2 structure:



4 wherein,
5 R⁷ is a reactive functional group; and
6 n is a number from 1 to 20, inclusive.

1 **122.** (New) The compound according to claim 121, wherein n is a number
2 from 2 to 9, inclusive.

1 **123.** (New) The compound according to claim 109, wherein R² is a member
2 selected from -COOH, -OH, -NH₂, and -SH.

1 **124.** (New) The compound according to claim 121, wherein R⁷ is a member
2 selected from -COOH, -OH, -NH₂, and -SH.